

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
9 September 2005 (09.09.2005)

PCT

(10) International Publication Number
WO 2005/082030 A2

(51) International Patent Classification: Not classified

(21) International Application Number:
PCT/US2005/005996

(22) International Filing Date: 24 February 2005 (24.02.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/547,526 25 February 2004 (25.02.2004) US

(71) Applicant (*for all designated States except US*): AVALON
PHARMACEUTICALS [US/US]; 20358 Seneca Meadows
Parkway, Germantown, MD 20876 (US).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): STROVEL, Jeffrey,
W. [US/US]; 14622 Keeneland Circle, North Potomac,
MD 20878 (US). BOL, David [US/US]; 8904 Brink
Road, Gaithersburg, MD 20882 (US). YOUNG, Paul, E.
[US/US]; 11205 Hawhill End, Potomac, MD 20854 (US).

(74) Agents: GRANT, Alan, J. et al.; Carella, Byrne, Bain,
Gilfillan, Cecchi Stewart & Olstein, 5, Becker Farm Road,
Roseland, NJ 07068 (US).

(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ,
TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,
ZM, ZW.

(84) Designated States (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— *of inventorship (Rule 4.17(iv)) for US only*

Published:

— *without international search report and to be republished
upon receipt of that report*

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

(54) Title: CHEMO-CENTRIC SELECTION OF DISEASE-RELATED GENETIC PROFILES

(57) Abstract: Methods for the identification of disease-related gene sets and expression nprofiles, based on common chemical modulation using a specific chemical compound are disclosed.

WO 2005/082030 A2